

ABSTRACT

An egg counter for counting eggs which are conveyed on an egg collection conveyer according to the present invention comprises a first light emitting element array, a second light emitting element array, a light receiving element array that is
5 provided between said first and second light emitting element arrays, and a control means for processing the light reflected on the respective eggs and received by the light receiving element array, said first and second light emitting element arrays and said light receiving element array being arranged such that the light emitted from the each of the light emitting elements in the arrays is reflected on the surface of the egg that is
10 passing just under the light receiving element array, and then the reflected light is received by the light receiving element array, said the control means being intended to measure the light intensity of the reflected infrared light, detect the peak value of the light intensity, and count the egg on the basis of the two peak values of the light intensities with respect to first and second infrared light emitting element arrays (FIG.
15 4).

- 1 cage unit
- 2 cage chamber array
- 3 cage chamber
- 4 first egg collection conveyer
- 5 egg handing over means
- 6 egg elevating means
- 7 second egg collection conveyer
- 8 third egg collection conveyer
- 10 egg counter
- 10 11 infrared light receiving array
- 12 first infrared light emitting array
- 13 second infrared light emitting array
- 14 data cable
- 15 control means
- 15 20 nest system
- 21 nest
- 22 egg collection conveyer
- 23 egg counter
- 20 E egg
- R infrared light
- 30 conventional egg counter
- 25 31 infrared light emitting element array
- 32 infrared light receiving element array
- 33 egg collection conveyer